

# BROOKHAVEN BULLETIN

June 29, 1973

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## **D.H. Gurinsky Named** Fellow of ASM

The Board of Trustees of the American Society of Metals (ASM) has elected David H. Gurinsky of DAS a Fellow of the Society.

The honor of Fellow represents recognition of Mr. Gurinsky's distinguished contributions in the field of metals and materials, and develops a broadly based forum for technical and professional leaders to serve as advisors to the Society

This honor will be conferred upon Mr. Gurinsky at the Convocation of Fellows to be held immediately following the ASM Annual Meeting on Tuesday, October 2, at the Conrad Hilton Hotel in Chicago, Illinois. Mr. Gurinsky will also receive special recognition during all major events of the 1973 Metal Show and Materials Engineering Congress to be held in Chicago, October

# Ion Source **Intensity Record**

Three months ago it was reported in the Brookhaven Bulletin that three physicists of the Accelerator Department succeeded in producing more than one milliampere negative hydrogen beam extracted directly from a hollow discharge duoplasmatron. They were convinced that they could boost the production of these fragile particles by another order of magnitude to become useful for applications in high energy accelerators and storage rings.

Krsto Prelec and Theo Sluyters, supported by Ron Clipperton, Bob Larson, Lou Repeta and his team, exceeded this expectation by producing a thirteen milliampere negative hydrogen beam from the same source, exceeding by a factor of two a Russian record from a similar source. They predict that in the near future it will be possible to boost the production of negative hydrogen to such an extent that it becomes feasible to apply these sources as injectors not only for accelerators but also for fusion

# French Group Plans **Bastille Day Picnic**

On Saturday, July 14, the French Group of BNL will celebrate Bastille Day with a picnic and barbecue at the Recreation Hall. "Le Quatorze Juillet" is a national holiday in France, where it celebrates the anniversary of the overthrow of the Bastille in 1789, at the beginning of the French Revolution. Thus, it has a significance comparable to our Fourth of July. A typical Parisian July 14th traditionally includes a military parade, followed in the evening by a display of fireworks, and dancing through the night in numerous small squares of the city. We can't hope to match this, but we expect to have fun at a pleasant, informal, celebration for members of the French Group and anyone else who is interested.

Festivities will begin at the Recreation Hall in the apartment area at 7 p.m. Barbecue facilities, soft drinks, coffee, and dessert will be provided, but aside from this, you're on your own with respect to food and drink. To paraphrase the sign often posted outside small roadside cafes: "On doit apporter son casse-croute." There will also be records to provide music for dancing (but not in the street, please).

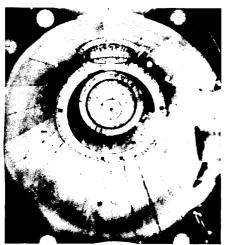
All members of the BNL community are invited; however, it will help with the planning if you notify in advance either Mrs. Paulette Goodman (744-8449) or Mrs. Josette Auerbach (286-3742).

We consider all Laboratory employees as potential reporters and would like to solicit news articles from you. When something is happening in your area that you think is of interest to the entire community why not try your hand at writing it up as a short article and send it to the editor? Any article selected by the editor, who could use a fair amount of material each week, will bear the credit line of the person who wrote it.

## Seven-foot Chamber Is Go!



Norman Franklin and Howard Olson installing scotchlite reflective coating in the Seven-foot Chamber.



Camera's eye view of the chamber with cosmic rays passing thru.



Enlarged view of chambers picture showing cosmic ray tracks.

## Things Are Jumping At The Hop

BNL's first Record Hop proved to be a big success. Forty people arrived at the Recreation Building in the Apartment Area to join in the festivities.

There was plenty of music and refreshments for all, as the gang kicked off the summer season.

Record Hops will be held every Thursday evening during the summer from 8:30 p.m. to 12:00 a.m. Admission is free; beer and soda can be purchased for 25¢.

Come and join the fun; enjoy mingling with the young.

#### **Nuclide Chart Available**

Staff members may obtain a copy of the G.E. Chart of the Nuclides (Eleventh Edition) by calling Ext. 3484.

### **Selected Reading**

N.Y. Times Mag. June 17, 1963 Science and Richard Nixon. D.S. Greenberg 12-

Phys. Rev. 24, June 1973 The idea of a research council. B. Flowers. 345-9

Domestic science. C. J. Myers. 350-2 Sci. 180, June 22, 1973

NIH Director Stone: Another manager on Nixon's health team. B. J. Culliton. 1258-9+

#### Checking Progress

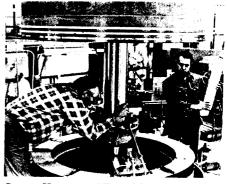


Brookhaven Town Supervisor Charles Barraud (foreground) gets a progress report on the spray irrigation project at BNL from Max Small of Plant Engineering. The two men are looking at a sludge settling tank being tested before use in the project.

# 7-Foot Chamber **Coming On Strong**

The primary particle detector in BNL's new "H-10" or "North" Experimental Area of the AGS is the 7-foot Bubble Chamber.

The 7-foot Chamber itself has evolved through a test facility stage, which in 1969 and 1970 was used to test and perfect a large number of new ideas originating at BNL. Many of these ideas are now incorporated in the design of even bigger chambers being built at CERN and NAL, and one now operating at ANL.

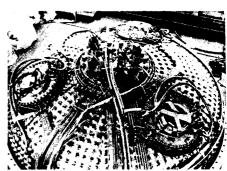


George Hutson and Tony Muscarella install the bubble chamber piston.

Since January 1971, the chamber has been moved from the Southwest Experimental Area and, in the process, has been modified to make it more suitable as a user facility. Most of the modifications were made to the hydrogen chamber and that part of the facility was tested last week by the Particle Detector Division of AGS.

For this test run, the chamber was filled wih liquid hydrogen and operated at a temperature of about minus 415°F. The operators began cooling the chamber to this temperature on June 8 and it was filled with liquid on June 15. In order to make the chamber sensitive to particles as they pass through the liquid, the chamber volume is expanded rapidly by means of a 60inch diameter, fiberglass and epoxy piston which is driven by a hydraulic actuator. The first trial expansions took place on June 20. The chamber was made sensitive and photographs of cosmic ray tracks in the chamber liquid were taken beginning on June 22.

About 20,000 chamber cycles were obtained during the next two days with very good results. All of the newly installed equipment operated to its design specifications while cycling at rates as fast as one cycle each 1.3 seconds.



Top view of the chamber showing three camera ports.

Now that this test has been completed, the chamber's superconducting magnet, which had already been operated before the move, will be installed. This will complete the facility which is scheduled for operation this fall using the neutrino beam now under construction in the North Experimental Area.

Neutrinos from interactions of the external proton beam from the AGS with a sapphire target will be the subject of study in the first experiments. The neutrinos interacting in the bubble chamber, will enable a direct study of the properties of the so-called "Weak Interactions." This should shed light on a number of the most interesting and pressing questions facing high energy physics today.

# **Swimming Pool**

Swimming Pool season tickets are now on sale at the BERA Sales & Services Office and at the Swimming Pool.

# Soviet Living Not Easy For American Scientists

by Rita Greenhouse

"If I was a Soviet citizen I'd be indignant," remarked Vicki May about the preferential treatment given tourists in Moscow. Being a visitor, she was able to bypass some of the delay that confronts the average Russian - like the enormous lines at Lenin's tomb - but a week in Russia was not without its aggravations for Vicki, her husband, and Sol Pearlstein.

Vicki May and Sol Pearlstein of the Department of Applied Science, represented the National Neutron Cross Section Center (NNCSC) here at BNL during a consultants' meeting of the four world neutron data centers, held in Moscow and Obninsk in early June. As director of the NNCSC it was Pearlstein's second visit to Russia, but the trip was a first for Vicki.

Problems began for them at Moscow Airport, which Vicki described as "awful." There were few signs, directions, or flight schedules in view. Their Russian hosts took hours to locate their hotel, only to discover that she and her husband John were booked at different locations. They were later able to resolve that problem.

After the confusion settled down, she realized suddenly that there were no cars. Public transportation was quite good however. The subway was clean and well run, and for official business the group was transported in busses

Vicki also recalled the food in Moscow. She described it as "good," for the first two days, but afterwards it seemed to go downhill. Every clish which they had was served with cucumbers and fried potatoes. Aside from the quality of the food, Vicki alluded to a deeper difficulty. "Nothing is made simple," a stringent line of authority seems to extend clown even to the act of food selection. "Getting into a restaurant is an argument and eating is a three hour proposition." It is generally accepted for example, when a group goes out to eat, that evervone will order the same thing, to reduce the waiter's work load. But, "if you assert yourself, you can get what you want," despite the "petty dictators." She noted that the system perpetuates itself because the people accept such things passively. Vicki and her colleagues learned that they had to argue even to get ice, despite the 90 degree tem-

Their restaurant visits were not all negative however. On one occasion they engaged in an evening-long toast with a group of Soviets at an adjoining table. Vicki speculated that they took a liking to her mustachioed husband because beards and mustaches are rare on younger Russian men. Although none of the group spoke the language fluently, they communicated in a combination of Russian, German and English.

Despite several light moments in Moscow, she noted that the city seemed "very dingy in atmosphere." There were few pets, no picnickers and walking through the grass was forbidden. Neither citizens nor tourists are allowed to travel outside of the city without a visa or a pass. Still she added, "It didn't seem as bad as most people said

From Moscow the meeting took them to Obninsk and the Physics and Engineering Institute. Although controls for visitors were tighter there, Vicki found the atmosphere more enjoyable. In Obninsk, visiting with Russian families was one of the highlights of the trip. She discovered that the Soviets were like Americans, in fact, "You find wherever you go, people are much the same." In their homes she found the people were more open, relaxed, and "satisfied." She added that home-cooked food was delicious.



Sol Pearlstein, Vicki May, and husband John May pause for a moment in front of their lodgings at the Hotel Ukraine during their recent trip to Russia.

Vicki found few women scientists at Obninsk. She capsulized the situation by saying, "Women are liberated to a certain degree - mostly downward." She found female masons, doctors and clerks, but noticed no policewomen, female musicians or even waitresses in the better class restaurants. She mentioned that the wife of Dr. Abramov, one of the scientists that they visited, was quite anxious to meet Vicki after having heard about the life of career women in the United States.

Vicki appreciated the experience of traveling in Russia, but she did not appreciate the effects of the Soviet bureaucracy. Plans to visit Leningrad and Kiev were bogged down in incredible red tape and eventually had to be discarded. "The left hand never knew what the right hand was doing," she commented. "The Russian bureaucracy is so enmeshed that there is no way to circumvent it.'

Business later turned to pleasure for Vicki. After leaving Obninsk she and her husband spent four days in Holland. The contrasts between Moscow and the spirit of life in Amsterdam caused her to remark, "It was like going to the land of Oz." After five days in London they returned to the

# **Friday Nite** At The Movies . .

On television? No, not this time. Besides, who wants to stay home on Friday nights and look at the boob tube?

You can give your wife a break and at the same time have some fun by going to the Friday Nite Movies at Brookhaven National Lab. Not only that, but you can stop before the show and have a bite to eat at the Center, and can stop back again after the show to have a drink and formulate a critical opinion about the evening's offering. Starting on July 13, and continuing thruout the summer till the end of August, BERA will present each week a specially selected movie at the low admission price of only one dollar for adults and fifty cents for those under 18.

The movies will be screened in Berkner Hall starting at 8:30 p.m. As usual, there is plenty of free parking available, as well as the most comfortable theatre seats in Brookhaven Town.

The seven films to be shown include: Nosferatu (the first important film of the Dracula genre); The Classic Comedians (a potpourri of scenes from Chaplin, The Marx Brothers, and W.C. Fields); Rachael, Rachael; - that all-time-classic, African Queen; Georgy Girl; Mad Room; and Shoot Loud, Louder, I Don't Understand.

Tickets for Friday Nite at the Movies will be sold at the door, and are available to employees, family members, and to the general public.

Check out the prices at the Center, and remember the price of admission to the movies. In these days of increasing prices, you will find that a night at BNL will entertain you without breaking your budget!

## **New Items for Activities Participation**

The BERA Awards Committee has just added two new items to the list of awards BNL employees may obtain by participation in their favorite sports or activities.

Activities that are currently in the Participation Award Program include football, softball, bowling, volleyball, soccer, badminton, basketball, as well as the Rifle & Pistol Club. Other activities will be joining up soon.

After you have obtained the required number of participation cards, you may claim your award the third Thursday of the month between 12:00 and 12:30 in the Gym.

# **Arrivals & Departures**

	Arrivals	
Rippie Bowman	Photograph	1
Rosemary Mack	Accelerate	a

# Departures

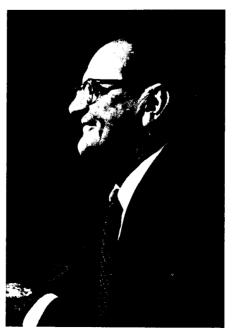
•	
Dennis Gaynor	Applied Math
Michael L. Ioffredo	Physics
Robert H. Jones	Instrumentation
Cheryl A. Martin	Systems & ADP
Alan J. Smith	Applied Math



James R. Klein, a Senior Biochemist in the Biology Department who has been at Brookhaven since January 27, 1948, will retire on June 30.



John H. Wolters, a Refrigeration and Air Conditioning Engineer in Plant Engineering who began work at the Laboratory on October 13, 1969, will retire on June 29.



Kenneth Conroy, a Veterinary Services Assistant in the Medical Department who started work at BNL on February 16, 1959, will retire on June 29.

#### Letters To The Editor

On June 7 I was involved in a collision at the Lab's north entrance. As a result of this I was hospitalized at Mather Memorial Hospital. I would like to take this opportunity to thank all the kind people who stopped at the scene of the accident to offer their help. Unfortunately, I don't know any of them by name, but I want them to know how grateful I am for their assistance.

George Martin

## Reprocessed Oil **Used in Lab Boilers**

by Rita Greenhouse

Despite the cost of gasoline, the number of cars in the area is growing. Not long ago, waste oil from cars, trucks and busses was being indiscriminately dumped on land and waterways, until foresight and good judgement prompted the Town of Brookhaven to seek out an alternative method of handling

In April of 1972, Charles W. Barraud, Supervisor of the Town of Brookhaven, commissioned the consulting firm of Pope, Evans and Robbins to perform a study of current waste oil generation.

It was discovered in October of 1972 that the Sheridan Industrial Oil Corporation, a private firm in East Patchogue, was collecting most of the waste oil which had been previously dumped. The company treated the oil and resold the product as fuel for heating purposes. In March of the next year however, as the end of the heating season drew near, the firm's market for fuel diminished and William Sheridan's company was faced with the danger of going out of business. More than an economic loss, this meant that the Town of Brookhaven would be faced with the waste oil problem again, so Barraud set out to convince BNL of the advantages of using filtered waste oil as fuel.

The American Petroleum Institute (API) and the Federal Environmental Protection Agency (EPA) investigated the possibility of using the oil. They determined that it can be mixed with Number 4 or Number 6 fuel oil without causing harmful effects to the environment or the physical plant. At the time Barraud requested BNL to purchase the oil for heating, several hundred gallons of it were already being used in Brookhaven's Town Hall boiler plant.

BNL's Plant Engineering Department also investigated the possibility of using filtered waste oil as fuel in the central heating plant. Not only was it technically feasible, but Associate Director for Administration, Vincent O'Leary concluded that "certain economic gains may well accrue from its use." He requested the Purchasing Department to begin negotiations with the Sheridan Industrial Oil Corporation. E.E. Shelton of Plant Engineering, said in a memo to O'Leary that "Its use is recommended only as a method of conserving existing fuel stores, but as a means of recycling a potential pollutant.'

Tests completed by the Long Island Lighting Company (LILCO) indicated that the lubricating oil has 92% of the heat value of virgin Number 6 fuel oil (137,000 vs 150,000 BTU's per gallon). It contains a factor of 9 less sulphur content than Number 6, which more than meets the EPA requirements for low sulphur oil. And it contains essentially no vanadium as compared to Number 6 fuel (Vanadium is a metallic element that tends to reduce the service life of boiler refractory, and necessitates costly repairs).

Currently BNL uses a 10% blend of the processed waste oil in combination with Number 6. Shelton noted that "up to a 25% mix of waste oil can be fired without major changes of instrument control set points."

All signs indicate that the blending process will be a permanent arrangement. Because of the volume of oil used, the Lab naturally enjoys a lower price than smaller consumers. O'Leary remarked that "at the moment we have a favorable contract." but, "we are looking at other people as possible suppliers of the oil."

He also pointed out that "we have to be particularly careful," because of the quality of the oil being used. With proper processing however, he said "we should be able to take a lot of the waste oil in the area." This benefits the town, the oil company, BNL, and the environment.

## Photo Exhibit at Berkner Hall

by Rita Greenhouse

It began on a dreary Monday morning in the almost deserted foyer of Berkner Hall. Peg boards were scattered about, some standing, some leaning on furniture, seemingly unable to cope with the first day of the work week. Later that day however, prints done by members of the BNL Camera Club were on display.

By far, the most striking photographs belonged to Victor W. Cohen of the Physics Department, who captured the seclusion of a mountain retreat in brilliant color. The summits of one scene crossed the sky, while snow dotted the crevices and logs lay aimlessly in the foreground lake. In another, whispy clouds interspersed with billowing giants, seemed to rule the sky, as two white flags waved in the right foreground. Under the picture Cohen had a quote from The Old Man and the Mountain, which ended with the line: "For what gaineth the man but hollow reward if he achieves the end with no effort." The effort was clear in Cohen's work as one viewer remarked, "It's a post card picture.'

Next to Cohen's prints were those of Allen Lee Sessoms. The contrast between the two, and in fact within Sessoms' own work, was evident. Sessoms' black and white stills varied from a close-up still of raindrops on delicate branches, to a fisherman on the shores of a stormy sea. His photographs also included black and white portraits of two nude women, one young, staring in innocence, the other, kneeling, draped over herself, head hidden against a black back-

Susan Mayer Sessoms' prints were largely black and white, her most memorable being several close-ups of tree bark which swirled in eerie patterns. She chose a set of rusty apartment mailboxes for another picture. Some were half open, others were falling at the hinges, seeming to tell of names and people of another time, not long ago.

John C. Norvell's work was also on display next to Kay Norvell's. His portrait of a mountain goat taken from a high angle prompted one viewer to say, "The goat looks embarrassed," as the animal stared up in curious fright. Kay Norvell's work included a photograph of a man with a large English sheep dog perched precariously in his arms.

The first day of the exhibit also brought out pieces by K. Fuchel of Applied Math, who carried out a middle eastern theme with care and precision. A small picture of a group of red flowers near a barbed wire fence seemed to testify to the strife there, yet a poignant moment was captured as a man stood near a camel while the camel kissed him in what appeared to be smiling affection. Another photograph taken in Jerusalem showed a donkey stumbling down a narrow street laden with boxes and baskets, while a few prints away, a man burdened with crates like the donkey's trodded down a dirt road

George W. Cole's work was also on display later in the week.

# Children's Summer Program Starts July 9

The Children's Summer Recreation Program is scheduled to begin on Monday, July 9th

The morning play sessions, open to children of on-site residents, will start at 9:00 a.m. at the Recreation Building in the Apartment Area.

Swimming lessons, open to children of all employees, will be given at the Swimming Pool starting at 1:00 p.m.

The registration fee for each child in each program is \$10. Registrations are now being accepted daily between the hours of 10:00 a.m. and 2:00 p.m. in the old Film Service Office in the Gymnasium. For further information call the Gym Office, extension 3149, between 9:00 a.m. and 5:00

Come in and register now!

### Pool Schedule

Week of July 2-6 - Pool closed July 4 12:00 - 1:00 p.m. - Employees only 1:00 – 9:30 p.m. – Employees/Families/

After July 9

12:00 - 1:00 p.m. - Employees only

1:00 - 2:30 p.m. - Childrens Swimming

Visitors

Lessons

3:00 - 9:30 p.m. - Employees/Families/ Visitors



A party was held in the lobby of the AGS Building on Monday, June 25 for presentation of Ten, Twenty and Twenty-five year Service Awards to members of the AGS who are eligible for awards during this year. Receiving awards were: 25 Years - E.D. Courant, A.C. Dick, Frank A. Janik, C. Lasky, Anthony Kokinelis, George W. Lilja, Leo Redmond, Roderich Rohrbach, Walter Sinuk, Lyle W. Smith, Charles N. Sponheimer, Jr.; 20 Years - Roger R. Adams, V. J. Buchanan, Marion Czaja, A.P. Schlafke, Walter R. Jacobs, C.O. Theisen, Vincent J. Kovarik, R.D. Thomas, Eugene C. Raka; 10 Years - William R. Busch, Richard Lehmann, J.E.

Allinger, William L. Cahill, Jr., Walter S. Lundgren, T. J. Blair, Renata Chasman, Dale E. Norden, C. Christianson, Joseph A. Curtiss, Erno A. Ostheimer, R. J. Massard, Per F. Dahl, George Parzen, H.R. McNeill, John M. Dunning, Dominick Salimando, R.W. Savage, Anne M. Flood, Robert E. Scheetz, J. Schuchmann, Robert S. Frankel, Werner Tramm, Harold E. Gassner, Robert J. Warkentien, Frederick B. Heilemann, George C. Warner, Everett S. Harris, John H. Weinmann, William E. Harrison, Jr., Erich H. Willen, George A. Hutson, Dieter Zantopp.

#### Softball

Dick Ruffing

#### Brookhaven League

Dirty Sox 8 Blue Iavs 10 Once again, timely hitting proved to be

the secret of success for the Jays. Nick Pisco had a three-run homerun and Tom Prach a two-run triple. Nick Pisco and Ed Meier both had a 3 for 4 evening. In the other game of the evening the Old

National League

Timers edged out Metallurgy 8-7.

S&M used the long ball successfully against the Bio-Meds as they defeated them

The Circuits defeated EAO 16-2.

Laboratory League

The Charlie Browns defeated the Converts 19-12. Bill Peals led the attack with a 5 for 5 night including a homerun for the Charlie Browns.

University League

The Oh Kays defeated the Odd Couples 26-4 and in the game scheduled for the evening, the Gotchas won by a forfeit over the Different Strokes.

## **Tennis Tournament Deadline Next Week**

Registration deadline for the 1973 BERA ennis tournament is July b. Play to start July 10. The BERA tournament is a simple elimination (one loss and out), and is limited to employees and their spouses. Summer staff and students working at BNL, who will be here during the entire tournament period (about 5 weeks) are eligible.

Register now at the BERA Sales and Services Office at the Cafeteria between 7:30 - 11:15 and 11:45 - 2:30. Entry fee is 50¢. Provided there are sufficient entries, competition will be in the following events:

1. Men's Singles

Open to employees only

2. Women's Singles Open to employees and wives of em-

3. Men's Doubles

Open to employees only

4. Mixed Doubles

Open to employees and/or spouses Detailed tournament rules will be available at registration.

For any questions call the tournament chairman Allan Auskern, extension 3029. or assistant tournament chairman James Brandon, extension 3516.

## It's The Law

Safety Instruction No. 14, "Traffic and Motor Vehicle Safety," prohibits personnel from riding on truck bodies, except in the following instances:

- Personnel may utilize seats in or on truck bodies when such seats are standard truck equipment installed by the manufacturer.
- Personnel may utilize seats in or on truck bodies which are certified by Health Physics and Safety Division, upon meeting Laboratory safety standards.
- Personnel may ride, in a seated position, in the bed of a truck which has sides with their backs against the cab or the sides (but not the tailgate), provided there is no heavy material in the bed of the truck which could fall or slide on or against

## Cafeteria Menu Week Ending July 6, 1973

Monday, July 2	
Tomato Soup	
Spanish Omelet & 1 Veg.	.85
Baked Macaroni au Gratin & 1 Veg.	.90
Boiled Beef w/Beet Relish & 1 Veg.	1.05
Tuesday, July 3	
Vegetable Soup	
Manicotti w/Tomato Sauce & 1 Veg.	.90
Short Ribs of Beef & 1 Veg.	1.05
Pork Chow Mein on Rice	
w/Crisp Noodles	.95
Wednesday, July 4	
Snack Bar Open 9:00 a.m 2:00 p.m.	
Thursday, July 5	
Turkey Noodle Soup	
Corned Beef & Cabbage	
w/Boiled Potato	1.05
Spaghetti w/Italian Sausage & Peppers	.95
Grilled Chopped Beefsteak & 1 Veg.	.90
Friday, July 6	
Manhattan Clam Chowder	
Roast Beef w/Brown Gravy & 1 Veg.	1.05
Fish 'n' Chips w/Tartar Sauce	.95
Broiled Filet of Turbot & 1 Veg.	.99
9	

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Published Weekly for the Employees of **Brookhaven National Laboratory** 

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### Classified Advertisements

#### **Placement Notices**

Each week, the BROOKHAVEN BULLETIN lists personnel placement requisitions currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consider ation for themselves or others whom they wish to reco In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the im mediate group having the vacancy, employees within the dep or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, p tact Employment Supervisor, extension 2879 or 2882.

KEY PUNCH OPERATORS - One temporary position. Systems & Data Processing

TECHNICIAN - Vacuum Group. Possible rotating shift. Accelerator Department.

RADIOACTIVE MATERIALS TREATMENT OPERATOR **B** - Department of Applied Science

SECRETARIES - Temporary and part-time positions. Department of Applied Science.

TECHNICIAN - Knowledge of analog and digital circuits. Experience in construction of electronic instruments required. Instrumentation Division.

SECRETARY - Medical Department.

TECHNICIAN - Photography & Graphic Arts Division. STORES CLERK (1) - Supply & Materiel. Application deadline: July 10, 1973.

ELECTRICIAN A (1) - Plant Engineering. Application deadline: July 10, 1973.

### **Autos & Auto Supplies**

69 FURY III - 2 dr hdtp, std trans, 383, new batt, brakes, muff, reasonable. W. Museler, Ext. 4280, 473-7534.

TIRE - 6.50x13 on Plymouth 5 hole rim, very good cond. \$8. Frank, Ext. 2022.

2-15" MAG WHEELS - W/tires, very good cond. Best offer over \$45. Joe, 475-1349.

TIRES - 3 Goodyear Polyglas G78.15 (8.25x15) w/w, very good cond. 3/\$40. 732-5829.

2-13" RIMS - 5 holes. \$3. O. Booker, Ext. 4719.

66 CHRYSLER 300 - 1-owner luxury car. \$600. Call J.

Hallock, Ext. 4223, or 878-0222 for appointment.

TRAILER HITCH - Class II for 1969-73 Ford Econoline, Club Wagon. \$8. R. Hildenbrand, Ext. 3274.

68 LE SABRE - Ps/pb, am radio, body good, motor excel, 2 snows, needs tailpipe. \$1000 firm. Pat, Ext. 4763, 589-2648 after 6.

68 SAAB - V4, air cond, all new radial tires, new exhaust sys, very good cond. 589-0465 eves & weekends. 69 FORD GALAXIE 500 - 4 dr hdtp, full pwr, air cond, 47,000 mi, excel cond, must sell. \$1250. 878-

65 VW BUG - \$200; new car radio, 6v/12v, \$8. Kurt,

2-15" WHEELS FOR FORD - HR3-4555.

69 CHRYSLER STATION WAGON - Pwr everything, excel cond, radial tires. \$200 over wholesale. W.S. Webster, Ext. 2564.

#### Classified Advertisements

64 PONTIAC BONNEVILLE - Eng comp overhauled, 4 dr, body excel cond. \$400. D. Gawlowski, 281-4138. 68 PLYMOUTH WAGON - Ps, excel family transp. \$695, 286-3540 eyes.

#### **Boats & Marine Supplies**

10' ROWBOAT - \$25. A. Beckwith, Ext. 3357, 929-4949.

12' ALUM BOAT - W/3.5 hp motor. \$130. John, Ext. 3499.

16' CHRYSLER ALUM BOAT - W/Tee Nee trailer & 9.9 hp Chrysler motor, excel cond. \$850. John, Ext. 3499.

17' CRUISER INC RUNABOUT - 50 hp Johnson electromatic, navy top, 20 gal fuel tank, 2 anchors & misc equipment. L. Kukacka, Ext. 3065, 473-1157.

21" SHOREBIRD - Gaff rig sloop, f/g over wood, compl equipped, 4 hp Evinrude OB (10 hrs old). \$700. Ben, Ext. 2902.

15' LITTLE DUDE BOAT TRAILER - Can handle 12'-15' boats, fair to good cond. \$75. B. Espensen, Ext. 3992. ALCORT SUNFISH - Like new, nylon ropes, jam cleat,

sailbag, paddle. \$390. Ext. 4240, 286-0295.

#### Miscellaneous

AIR CONDITICINER - Will cool a 24x11-ft rm. \$40. J. Ryan, Ext. 3354.

MAYTAG DRYER - \$90; b/w console TV, \$65; many baby items & furn, like new; men's & women's clothing, like new & cheap; odds & ends. Peg, 928-2229.

DOBERMAN PINSCHER - Male, 1½ yrs old, good watchdog. A. Sessoms, 667-4548.
ALUM STORM DOORS - 36½x80¾ & 30½x80½. \$20

ea. A. Munsterman, 744-5871.

3 PC FRENCH PROV SECTIONAL - Gold & white, glass top coffee table & end table, excel cond. 585-4040 after 6.

CASSETTE TAPE PLAYER & RECORDER - Hardly used, w/adapter & 11 tapes, some never opened. \$90. George, Ext. 2534.

21" BOY'S BIKE  $\cdot$  3 spd, hand brakes, good cond. \$25. 744-8449.

16" GIRL'S BIKE - 3 spd, coaster brake, good cond. \$25, 744-8449.

BABY CAR SEAT - Perf cond, State approved. \$15. George, Ext. 2534.

ANTIQUE CHIPPENDALE SECRETARY - & man's chifferobe, good cond, best offer. Joe, 475-1349.

SPORT JACKETS - 12-16, good cond, \$4-5; boy's slacks. 744-5871.

ELEC IRON - \$2; card shuffler, \$3. 286-2280.

RECORDING TAPE - 7" reels, 25¢ ea; RCA 45 rpm stereo player, \$5. R. Hildenbrand, Ext. 3274.

RESTORERS DELIGHT & FORTUNE - 5 antique cane chairs, need repairing, refinishing, caning. \$20. 286-

GUITAR - Gibson ES335, practically new, hardly used, beautiful walnut finish, 2 pickups, w/case. New \$425, sacrifice \$350. 286-0641 after 5.

BABY CHIFFEROBE - Good cond. \$15. Ext. 4009, 475-6288.

BEGINNER'S WATER SKIIS - Make offer. J.D. Smith,

Ext. 4532.

LAWN MOWER - Self-propelled, 24" Yazoo, 2 big wheels, heavy. Asking \$75. Woodwell, 286-0798.

STORM & SCREEN DOOR - Crossbuck design, wooden, door check & wrought iron hinges. \$18. JU4-6019.

4 CAVITY BULLET MOULD - .45 cal w/handle, \$12; 10' fishing rod, \$10. John, Ext. 3499.

2 YOUTH BEDS - Vinyl headboards, guard rails. Both/\$50. 473-3938.

125' WIRE FENCING - 4'h, heavy gauge, used for horse paddok, also have wood fence posts. \$25. 363-

LG OLD OAK ROLL TOP DESK - Old oak dresser w/mirror, both refinished. 363-2825.

WALL OVEN - W/rotisserie, deluxe model, good cond, reasonable. 286-0889, 286-3634.

TV - Needs minor repair, sell cheap; very old (78) phonograph records. O. Booker, Ext. 4719.

AKC GERMAN SHEP PUP - 4 mos, male, champion sired, shots, excel temperament, health guaranteed, has been shown & has ribbons. Joann, 289-1542.

2 ROTARY LAWNMOWERS - \$15 & \$20. Kurt, Ext. 3170.

GE DRYER - \$20; 2 cribs, \$8 & \$12; beam type baby scale, \$8; humidifier, \$3. Kurt, Ext. 3170.

DIN TABLE - Heywood/Wakefield, dropleaf, spoonfoot, rock maple, fruitwood fin, seats 8-10, mint cond. \$100. Lou, Ext. 2480.

SWIVEL ROCKER - \$10; webbed playpen, \$5; 10 gal aquarium & stand, \$8; kitchen set, \$20. 473-4555.

SLIDING GLASS DOORS - Compl w/storms & hardware, \$20; metal spring for dbl bed, \$2. Ext. 3964, 744-1514.

MODEL AIRPLANE ENG - Made by Enya, compl factory hand lapped, size 0.19 cu in w/muff, new. \$10. Ext. 4240, 286-0295.

POODLE PUPPIES - AKC reg, 3 males, 1 female, ready in 1 wk. 289-0524 after 5.

FREE! - 6 adorable kittens, 5 males (3 orange, 2 white), 1 female (gray tiger stripe), 5 wks old. Ext. 3859, 727-8642.

BOX SPRING & MATT - Foam rubber, excel cond, \$35; antique English brass fireplace andiron set, \$35. Ext. 4118, 928-5714.

BABY CARRIAGE - \$15; portable bassinette, \$10. A. Bamberger, 289-3974.

TYPEWRITER - Smith Corona Galaxy Deluxe w/case, like new. \$50. M. Russo, Ext. 4046.

#### Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

#### For Sale

MASTIC BEACH - 2 bedrm ranch, Ig liv rm, din rm, eat-in kitchen, full bsmt, Florida rm, garage, 500' from bus line, walk to village. Asking \$29,000. Ext. 3499. 281-8349.

SAYVILLE - 3 bedrm split, 1½ baths, 27' fam rm, cathedral ceiling, copper & brick kitchen, garage, laundry, 18' goldfish pond w/bridge & waterfall, fenced. \$32,000. 567-3110.

PORT JEFF STA - 3 bedrms, 1½ baths, 1g kitchen, 20'x22' fam rm w/fireplace, many built-ins, ½ acre. 473-4555.

4 BEDRM HI-RANCH - Lg eat-in kitchen w/dishwasher, range, fam rm, liv rm, din rm, 2 compl baths, walk to golf course - ocean - beach ferry, many extras incl w/w. \$32,500. 286-0147.

#### For Rent

1 PERSON APT - 2 rms, priv entrance, deluxe furnishings, dishwasher, pool, laundry, all util incl, 12 mi from Lab near Sunrise Hwy. \$175. 289-6750.

#### Wanted

FREEZER - Upright or chest, appearance not important. Ronnie, Ext. 4174, 732-6712.

FILE CABINET - Any drawer size. Susan, Ext. 3462. WHOEVER OWNS - Pkg of liver in refrig - scanner's coffee rm, 2nd floor, bldg 510C, please remove.

BABY'S CRIB - And/or playpen in good cond. Ext. 3912.

70 DODGE DART - J. Hallock, Ext. 4223, 878-0222.

MAN'S BIKE - Inexpensive, but working cond, w/basket if possible. Phil, Ext. 3403.

SAAB SERVICE MANUAL - For cars model 96, 2 cycle

& V4, 1967. Ext. 4240, 286-0295.

OLD MOTOR'S, CHILTON'S - Or owners manuals, auto related literature. Frank, Ext. 2022, 281-3460.

#### Carpools

DRIVER WANTED - To compl existing carpool from Exit 52 (or further west) on LI Expwy. Elliott, Ext. 4457.

#### Lost & Found

FOUND - Gold colored Timex watch, found approx halfway between Gym & Cafeteria eve of 6/21. Contact Flemina House. Rm. 43.

FOUND - On Softball Field No. 1, a lt wgt blue jacket with the letter "T" on it. Ext. 4236.

#### Services

EXPERT TREE WORK - Pruning, topping, removal; light hauling & any handywork. Gray, 744-1548.

FAMILY VACATION - \$100/wk, Fri-Fri, avail July-Aug, RI or VT, 2 bedrms, sleeps 6, all conveniences. 281-8296 after 6.

SUPER SPRING SPECIAL - Will do hauling. \$10/truckload. Paul, 744-3807.

PIANO TUNING - \$10 & up. Dean, Ext. 3572.

COUPLES OR GROUPS TO 6 - Eve or wkend cruises out of E. Hampton, dinner res avail; charter fishing out of E. Hampton, bottom fishing or trolling. John, Ext. 4666. 324-4788.

HOUSE PAINTERS - Young, experienced painters, by the hour or by the job, estimates given. Roger, 941-9081.

EXT & INT PAINTING - Done by 2 college students, experienced, references, free estimates. 941-4328, 941-4616.

ENGLISH AND/OR SPANISH TUTORING AVAIL -Ext. 3191.

MODERN DANCE - Children's classes, beginner, intermediate; adult exercise & relaxation, sm classes. 286-0269.

#### Classified Ad Policy

#### Deadline is 12 noon Monday for publication Friday of the same week.

- 1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- 2. All items for sale or rent must be the advertiser's
- operry.

  3. Ads for material acquired for resale in association with
- a full or part-time business cannot be accepted.
- 4. Firearms offered for sale or trade may not be brought on site.
- 5. Ads not carried because of space restrictions will be held for publication in the next issue.
- 6. Ads are run only once and must be resubmitted if they are to be repeated.
- 7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

For Sale: Auto & Auto Supplies For Sale: Boats & Marine Supplies For Sale: Miscellaneous	Wanted Carpools Lost & Found Services	Check <b>x</b> the heading applying to your ac Print or type your ad in 20 words or les
Ads concerning property for sale or rent connot Office of the Brookhaven Bulletin, Room 111, 40		pecial Real Estate Ad forms are available at the
		(Name & Phone No. To Call)